



AMINO PEPTIDES

PRODUCT SPECIFICATION SHEET

Note: This document details the theoretical chemical properties and target specifications of this research compound. For batch-specific, independent laboratory test results, please refer to the independent Certificate of Analysis (C.O.A.) provided on our product page.

1. Product Identification

Product Name: Nicotinamide Adenine Dinucleotide (NAD⁺)

Synonyms: β-NAD, Coenzyme I, Diphosphopyridine nucleotide, Nadide

CAS Number: 53-84-9

PubChem CID: 5893

2. Chemical Properties

Amino Acid Sequence: N/A (Dinucleotide structure: Nicotinamide riboside 5'-pyrophosphate ester with adenosine 5'-phosphate)

Molecular Formula: C₂₁H₂₇N₇O₁₄P₂

Theoretical Molecular Weight: 663.43 Da

Form: Lyophilised powder

Appearance: Solid, White

3. Target Specifications

Target Purity (HPLC): ≥ 98.0%

Target Identity (MS): Expected MW 663.43 Da (± standard analytical tolerance)

Expected Peptide Content: N/A (Coenzyme purity ≥ 95.0% by enzymatic assay)

4. Storage and Handling Guidelines

Storage (Lyophilised): Store at -20°C or below. Protected from light and moisture.

Storage (Reconstituted): Store at 2°C to 8°C for up to 20 days. Do not freeze once reconstituted.

Usage: For laboratory research and in-vitro use only. Not for human or veterinary use.